

October 15, 2010

Mr. Steve Hoffman
City Lights Ltd.
936 W. 40th Street
Chicago, IL 60609

RE: Radiological Survey of Right-of-Way Utility Excavation
Permit No.: 775385884
Permit Address: Columbus and E. Illinois Street
AECOM Project No. 60164013

Dear Mr. Hoffman:

Pursuant to conditions specified in a permit (see attached) issued by the City of Chicago Department of Environment (CDOE), radiation monitoring was required to be performed at the above referenced site. AECOM provided the required radiation surveillance on October 11-13, 2010 for the installation of a red-light photo enforcement system that involved the removal and replacement of portions of the paved sidewalks on the southeast and northwest corners of Columbus and Illinois as well as the southeast corner of Park and Illinois (refer to attached drawing).

Radiological surveying was performed for the concrete and soil material removed for the excavation. The monitoring revealed no indication of soil material above the clean-up threshold established by the U. S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA cleanup threshold for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g total radium (Ra-226 + Ra-228)). Gamma radiation count measurements for the project were made using a Ludlum Model 2221 survey meter (Serial #176944) and unshielded 2 x 2 NaI probes (Model 44-10). For the instrument used, the gamma count indicative of the 7.1 pCi/g threshold is 17,522 counts per minute (cpm). Gamma readings and/or background at the surface was approximately 6,500 cpm. Gamma readings for the excavated soil materials ranged from 4,457 to 7,600 cpm. Thus, there was no indication of an exceedance of the USEPA cleanup threshold.

Finally, as part of the permit conditions, this letter has been forwarded to:

Chicago Department of Environment
Attention: Ms. Rahmat Begum
30 North LaSalle Street, 25th Floor
Chicago, Illinois 60602

Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Steven T. Newlin
Senior Project Engineer



Steven C. Kornder, Ph.D.
Senior Project Geoscientist

cc: Rahmat Begum, Chicago Department of Environment
Verneta Simon, USEPA

Attachments: Permit and Drawing

BHAMA T. 312-744-3152



City of Chicago
Richard M. Daley, Mayor

Department of Environment

Sadhu A. Johnston
Commissioner

Twenty-fifth Floor
30 North LaSalle Street
Chicago, Illinois 60602-2575
(312) 744-7606 (Voice)
(312) 744-6451 (FAX)
(312) 744-3586 (TTY)

http://www.cityofchicago.org

775385884
Permit No.

Date 10-13-10

Site Address
Columbus +
500 N Illinois

Work Location (Describe exact site location and attach map)

SE + NW

CRUIS RAN Z

Nature of Work
CAMELAS

Expected Start Date
ASAP

CITY OF CHICAGO DEPARTMENT OF ENVIRONMENT
FORM NO. DOE.ROW.02

Notice is hereby given that the site you have requested a permit for is recorded with the City of Chicago Department of Environment as potentially having environmental contamination on the site and adjacent right-of way. This environmental contamination could present a threat to human health and safety in connection with work performed at the site, or in the adjacent right-of-way, if proper safeguards are not employed.

A file containing detailed information regarding the aforementioned environmental contamination is available for review at the Department of Environment at 30 N. LaSalle St., 25th Floor, Chicago, Illinois 60602 during normal business hours (8:30AM -4:30PM, Monday through Friday). Contact (312) 744-7606 for an appointment. This file must be reviewed and the remainder of this form completed before the permit can be issued if the ground is exposed or excavated. Please note that for some locations, additional health and safety procedures may be required by law.

Please complete the following:

I have reviewed and understand the documents, maintained by the Department of Environment, regarding environmental contamination of the site and adjacent right-of-way. Further, I will ensure that all work at the subject site and adjacent right-of-way, and any monitoring required including but not limited to radiation monitoring, will be performed in a manner that is protective of human health and the environment and in compliance with all applicable local, state, and federal laws, rules, and regulations, especially those pertaining to worker safety and waste management. I will ensure that the results of any radiation monitoring and/or surveying conducted shall be provided to the Department of Environment and the United States Environmental Protection Agency within two (2) weeks of their completion. If any elevated levels of radioactive material are detected, I will immediately contact the United States Environmental Protection Agency at (800) 424-8802.

Applicant Name (print) STEVE HOFFMAN

Signature [Signature] Date

Company CITY LIGHTS

Company Address / Phone No. 9993 S. V. VIRGINIA

Check if City Department Work Department Name BOE

General / Prime Contractor BOE / RED FLEX
Include subcontractor information if applicable

Address 418 W 18th

Phone No. 858-5711

Safety Officer / Phone No. MARK CHUDERNA 773-617-5106

Radiation Contractor / Phone No. (if applicable) AC Com / STEVE KORNER

Department of Environment Approval / Date [Signature] 9/22/10 847-343-6007

Please return this completed form to the City of Chicago Department of Transportation at 30 N. LaSalle St., Room 1101, Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday).

For DOE Use Only



CONSTRUCTION NOTES

1. INSTALL FOUNDATION, REDFLEX CONTROL CABINET AND 5/8"x15' GROUND ROD. SEE CABINET FOUNDATION DETAIL.
2. CONTRACTOR SHALL TERMINATE AND LAND ALL POWER CIRCUITS INTO REDFLEX CABINET.
3. INSTALL INLINE FUSE HOLDER ON RED AND AMBER PHASE CONDUCTOR WITH 3 AMP FUSE INSIDE REDFLEX CABINET AND 5 AMP INLINE FUSE ON RED AND AMBER PHASE IN CITY CABINET BEFORE RED PHASE CONNECTION TO PROTECT CITY TRAFFIC CABINET.
4. INSTALL A 40 AMP CIRCUIT BREAKER INTO EXISTING POWER PANEL BY CITY B.O.E. FOR 120V SUPPLY TO REDFLEX CABINET.
5. TERMINATE #14 WIRE TO RED AND AMBER PHASE AND NEUTRAL INSIDE CITY TRAFFIC CABINET. SEE CONDUCTOR SCHEDULE FOR APPROACHES. (NOTE: NOTIFY THE CITY B.O.E. 24 HOURS BEFORE CONNECTION).
6. INSTALL JUNCTION BOX OF THE SIZE AND TYPE PER STANDARDS OF THE CITY-VERIFY BEFORE INSTALLATION.
7. INSTALL LOOPS AND CONDUIT STUBOUT FOR REDFLEX DETECTION. EACH LOOP MUST HAVE A SEPARATE HOME RUN AND LOOP LEAD IN CABLE; MAXIMUM 2 LOOPS PER SAWCUT. REDFLEX LOOPS TO BE LABELED AT REDFLEX CABINET. REPLACE CITY LOOPS IF REQUIRED TO CITY STANDARDS. SEE LOOP DETAIL AND DRAWING FOR QUANTITY AND LOOP ID#.
8. INSTALL FOUNDATION POLE AND GROUND ROD FOR REDFLEX EQUIPMENT. SEE DRAWING FOR LOCATION. SEE POLE DETAIL.
9. INSTALL CAMERA AND FLASH ENCLOSURE ON REDFLEX POLE; AIM AT MONITORED APPROACHES. ONE #14 AWG TSP CABLE FROM CAMERA ENCLOSURE TO FLASH.
10. INSTALL A 250 WATT FLASH UNIT ON REDFLEX POLE. AIM AT MONITORED APPROACHES.
11. TRACER WIRE TO BE RUN THROUGH ALL CONDUIT FROM THE REDFLEX CABINET TO ALL REDFLEX EQUIPMENT.
12. REDFLEX TO UTILIZE EXISTING BOE CONDUIT FOR CONDUCTOR INSTALLATIONS UNDER ROADWAYS, CONDUITS ARE TO BE INTERCONNECTED THROUGH EXISTING B.O.E. HAND HOLES (MANHOLES).
13. TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT #1 (HOT, NEUTRAL AND GROUND).
14. TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT #2 (HOT, NEUTRAL AND GROUND).
15. TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT #3 (HOT, NEUTRAL AND GROUND).
16. TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT #4 (HOT, NEUTRAL AND GROUND).
17. TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT #5 (HOT, NEUTRAL AND GROUND).
18. TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT #6 (HOT, NEUTRAL AND GROUND).
19. INSTALL A 2" CONDUIT RISER ON TELCO POLE, RISING 10', TO MATE WITH COMCAST INTERFACE. INSTALL WEATHER HEAD.
20. INCLUDE CONDUIT STUB IN CONTROLLER FOUNDATION FOR COMCAST CONNECTION.
21. CAT5E CABLE FROM CAMERA POLE TO REDFLEX CABINET.

GENERAL NOTES

1. ALL EXISTING UTILITIES SHOWN WITHIN THE PLANS ARE PROVIDED BY THE BEST AVAILABLE INFORMATION PROVIDED BY COOPERATING UTILITY COMPANIES. NEITHER REDFLEX NOR THE CITY ASSUME RESPONSIBILITY AS TO THE PRECISE LOCATION OR ACCURACY OF SHOWN UTILITIES. THE CONTRACTOR SHALL PROPERLY FIELD VERIFY UTILITY LOCATIONS AND SHALL PROPERLY PROTECT, MAINTAIN AND/OR REPAIR ANY DAMAGE OF ALL KNOWN AND ANY EXPOSED UNKNOWN UTILITIES SHOWN WITHIN THE PLANS. REDFLEX AND THE CITY ASSUME NO LIABILITY RESULTING IN POSSIBLE DEFICIENCIES IN UTILITY LOCATIONS AND NO REMEDIAL OR ADDITIONAL COMPENSATION WILL BE ALLOWED.
2. ALL WORK SHALL CONFORM TO ALL NATIONAL BUILDING AND ELECTRICAL CODES EXCEPT WHEN THE STATE D.O.T. AND/OR THE CITY STANDARDS SUPERSEDE.
3. ALL CABLING TO BE TAGGED AND IDENTIFIED.
4. CONDUIT WORK BEHIND BACK OF CURB AND/OR WITHIN SIDEWALK TO BE DIRECTION BORING WITH A MINIMUM OF 30" COVER.
5. CITY TO INSTALL SIGNS IN ALL DIRECTIONS OF ENFORCED INTERSECTION.

ABBREVIATIONS	
CATS	= CATEGORY FIVE CABLE
COAX	= COAXIAL CABLE
DLC	= DETECTOR LOOP CABLE (SHIELDED)
TSP	= TWISTED SHIELDED PAIR
LED	= LIGHT EMITTING DIODE
R/W	= RIGHT OF WAY
E.O.P.	= EDGE OF PAVEMENT
B.O.E.	= BUREAU OF ELECTRIC (CHICAGO)
-G-	= GAS UTILITIES
-E-	= ELECTRICAL UTILITIES
-W-	= WATER UTILITIES
-S-	= SEWER UTILITIES
-C-	= COMMUNICATION UTILITIES
-T-	= TELEGRAPH (POLICE/FIRE)
-EE-	= COMED HIGH VOLTAGE (SEE NOTE)

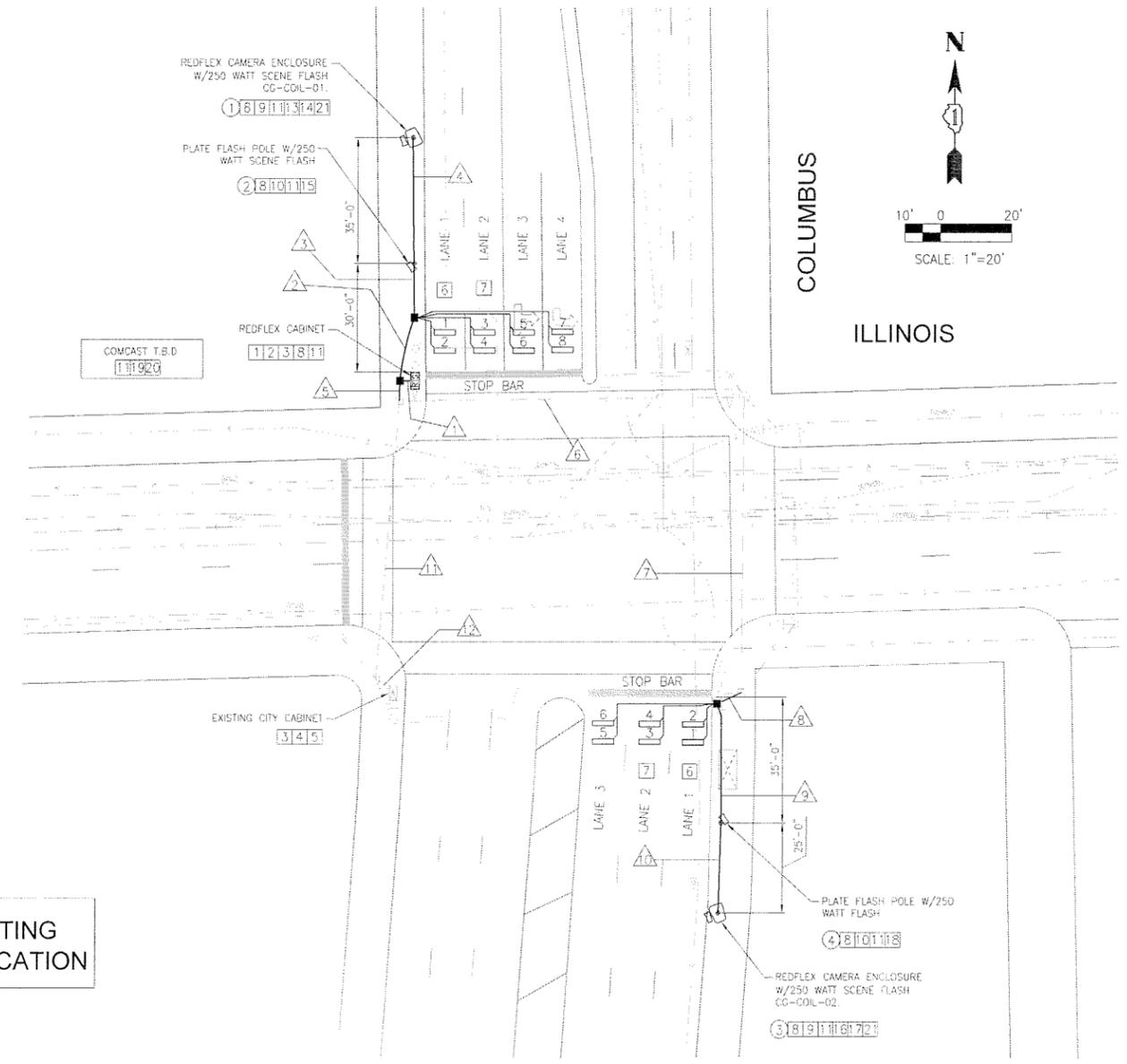
POLE SCHEDULE			
NO.	TYPE	HEIGHT	NEW/EXISTING
1	REDFLEX	10'	N
2	REDFLEX	10'	N
3	REDFLEX	10'	N
4	REDFLEX	10'	N

HAND DIG ALL NEW CONDUIT

LEGEND	
	EXISTING JUNCTION BOX
	PROPOSED JUNCTION BOX
	PROPOSED RTS LOOPS
	PROPOSED REDFLEX CONTROL CABINET
	PROPOSED CAMERA W/FLASH
	PROPOSED PLATE FLASH
	PROPOSED CONDUIT
	EXISTING B.O.E. CONDUIT
	EXISTING CITY POWER METER
	EXISTING LUMINAIRE POLE
	EXISTING TRAFFIC SIGNAL HEAD
	EXISTING TRAFFIC SIGNAL POLE
	EXISTING TRAFFIC CONTROLLER
	EXISTING B.O.E. MANHOLE
	BUS SHELTER

MUST VERIFY EXISTING UTILITY INFO AND LOCATION

SOURCE	CONDUCTORS AWG #	CONDUITS																	TERMINATION
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
POLE 1	CAT5E	3	3	3	3														REDFLEX CABINET
POLE 1 TSP	#14				2														POLE 2
POLE 3	CAT5E	3				3	3	3	3	3	3							REDFLEX CABINET	
POLE 3 TSP	#14										2							POLE 4	
CITY POWER PEDESTAL (120V)	#8	2				2						2	2					REDFLEX CABINET	
TRAFFIC SIGNAL RED PHASE (7 OR 10 CABLE CONDUCTOR)	#14	2				2						2	2					REDFLEX CABINET	
REDFLEX LOOP LEAD-IN	DLC	14	8			6	6	6	6									REDFLEX CABINET	
POWER CIRCUIT 1 (REDFLEX CABINET)	#10	3	3	3	3													POLE 1	
POWER CIRCUIT 2 (REDFLEX CABINET)	#10	3	3	3	3													POLE 1	
POWER CIRCUIT 3 (REDFLEX CABINET)	#10	3	3	3														POLE 2	
POWER CIRCUIT 4 (REDFLEX CABINET)	#10	3				3	3	3	3	3	3							POLE 3	
POWER CIRCUIT 5 (REDFLEX CABINET)	#10	3				3	3	3	3	3	3							POLE 3	
POWER CIRCUIT 6 (REDFLEX CABINET)	#10	3				3	3	3	3	3	3							POLE 4	
TRACE WIRE (FOR LOCATING)	#10	1	1	1	1	1	1	1	1	1	1							ALL REDFLEX EQUIPMENT	
TELCO POINT OF SERVICE	COAX																	REDFLEX CABINET	
TOTAL NEW CONDUCTORS		43	21	13	12	23	19	19	19	13	12	4	4						
CONDUIT SIZE (INCHES)						3-D	2-D					6-D	2(3)						
CONDUIT LENGTH (- FEET)		4	18	15	35	5			8	33	25								
NEW/EXISTING CONDUIT		N	N	N	N	N	E	E	N	N	N	E	E						



SEAL	REVISIONS			RELAY SCHEDULE	REDFLEX TRAFFIC SYSTEMS 15020 N. 74TH STREET SCOTTSDALE, AZ 85260 PH: 480 607 0705	DRAWN BY: JA	REVIEWED BY CITY STAFF	APPROVED BY:	CITY OF: CHICAGO	DRAWING NO. 0334
	VER	DATE (MMDDYY)	INITIAL	DESCRIPTION		DESIGNED BY: JA	DEPARTMENT	DATE	REDLIGHT PHOTO ENFORCEMENT	
	1.0	07/19/10	JA	SUBMITTAL W/ UTILITIES		CHECKED BY:	PUBLIC WORKS (OPER)			
						RECOMMENDED BY:	PUBLIC WORKS (ENV)			
						RECOMMENDED BY:	PUBLIC WORKS (WATER)			
				RECOMMENDED BY:	PUBLIC WORKS (TRAF)			TITLE: ILLINOIS AND COLUMBUS	DRAWING NO. 0334	
					FIRE DEPT			DEPUTY CITY ENGINEER	DEVELOPMENT SERVICES	DRAWING NO. 6-01

ASAC Template 2007-04-02